TO DOS: Short Term

- Continue hindcast; analysis
- Fix convection/boundary layer
  - Bergman / Core?
  - Do we have CCM3 fields?
- NEED TO UNDERSTAND THE VERTICAL FLUX-Philip Cameron-Smith
  - Do combined tendencies from top to specific level
- Redo simple tracers
- Understand how optical depth is calculated
- IPCC runs – NOTE: THERE ARE PLANS TO HAVE PAPER FROM ALL SUBMISSIONS
  - GISS, DAO
    - Then CCM3
- Do UEET / soot – Need fvGCM
- Incorporate aerosols into chemistry/photolysis
  - Core (Prather, Rodriguez, Duncan)
- Post-processing of tropospheric files/ software
  - Core / Harvard

TO Dos : Short term

- Rerun aerosols with Michigan fields
- Rerun aerosols with GMI results
- Rerun troposphere with GMI aerosols
- Analysis and writeup of aerosols (See Penner for details)
- ANALYSIS AND WRITING OF TROPOSPHERIC PAPERS (SEE JAL DETAILS)
  - Cloud analysis consistent with photolysis methodology
  - WRITING MEETING?
- Get timings for Combo – How much personnel!!!
- “Fix” Combo

TO DO's: Short Term

- Move fvGCM to Combo
  - 2x2.5
  - 4x5
- Put aerosols in Combo
- Speed-up combo
  - Langley
  - WACCM
  - Others?
- Run troposphere, Combo with new fields
- Rerun lightning
- Standardize I/O of aerosols to GMI
- Incorporate Michigan microphysics
- Doubling calculations (Prather)

TO Dos: Long term

- Peter Adams to do box model comparison
- Add AER and TOMAS go GMI, OCS
  - To COMBO model
  - Single interface
- Do the GEOS-4, ECMWF, fvGCM? Analysis – TRACE-P
  - Get an extra year from GEOS-4?
- Evaluation with satellite data
  - NO2 from Randall?
- Coupled chemistry/aerosol
- PROPOSALS

HOMEWORK

- Strahan
  - IPCC emissions/testing
  - Doubling exercise
  - Hindcast
- Steenrod
  - Hindcast
  - fvGCM, GEOS fields for GMI
  - Involvement in convection fix
- Jules
  - Timings
  - Incorporate aerosols in troposphere
  - Incorporate microphysics
  - Combo
- Bigyani
  - IPCC
  - Rerun troposphere, aerosols, UEET
- Bhat - Lightning

HOMEWORK (II)

- Rodriguez
  - Get info on photolysis rates, fastJ
  - Look over shoulders for convection, etc.
  - Budgets for troposphere
  - HOx analysis
- Duncan
  - IPCC
  - Lightning
  - Aerosols in chemistry/photolysis
  - Miscellaneous
- Bergmann
  - Convection, boundary layer
  - GEOS runs
  - IPCC
- Prather

  Analysis of H2O, T for troposphere (define_
  Run soot
  Convection, BL
  Analysis of tropospheric run simple tracers

HOMEWORK

- Rasch/Kinnison
  - Check on old CCM3 fields
  - Advise on convection
  - Solver?
- Logan/Harvard
  - Analysis of troposphere (see details)
- Chatfield
  - NO Budgets
  - Submit new stations
- Penner/Liu/Weisenstein
  - Analyze aerosol results
  - Standard aerosol interface
  - H2O analysis
  - Box model intercomparison with Adams
- Considine
  - Look at COMBO fixes, acceleration
  - Radionucleides?

HOMEWORK

- Pickering/Allen
  - Continue lightning
- Connell
  - Simplified mechanism
  - Advise on KMG
- Randall Martin
  - NO2 satellite data
  - Whatever else
- Clune
  - Look at SMVGEAR regimes
- Adams
  - Aerosol interface
  - Box model intercomparison

Convection

- DAO ok
- GISS model – Maybe right switch
  - May need a second GISS run separating deep and shallow convection (maybe combined now). Michael to think what is the best way to do it (Talk to Daniel; GISS).
- CCM3 – Need to get fields again – 1 week
- Need to implement:
  - One code to do deep convection for both GISS and CCM3 Essentially have (DAO?)
  - Same code for shallow convection (GISS)
  - One code for shallow convection (CCM3, fvGCM) – Jan 15?
  - Downdrafts? (Do transport by downdrafts) – Dec. 3
- Need write-up!!
- Simple approximation for shallow convection???
  - For IPCC and GISS. Michael (talk to Daniel, GISS) – 2 weeks?

Boundary Layer

- Need to look at whether mixing is indeed being done correctgly
- Logan to supply cases to look at.